

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A single conversion type high frequency receiver comprising:
an input terminal for receiving a high frequency signal;
a filter coupled to said input terminal;
~~an image rejection mixer having an input part coupled to an output part of said filter a mixer of which one input part is coupled to an output part of said filter and the other input part is coupled to an output part of a frequency variable local oscillator;~~ and
an output terminal coupled to an output part of said image rejection mixer,
~~wherein said image rejection mixer wherein said mixer is formed of an image rejection mixer, and said filter has a moderated damping characteristic with respect to a frequency when the image rejection mixer reduces the image comprises:~~
a variable frequency oscillator operable to output a signal;
a first phase shifter coupled to an output part of said variable frequency oscillator;
a first mixer for mixing the output of said filter and an output of said variable frequency oscillator;
a second mixer for mixing the output of said filter and an output of said first phase shifter; and
a second phase shifter coupled to an output part of said first mixer,
~~wherein said image rejection mixer is operable to generate a signal having an intermediate frequency, the intermediate frequency being a difference between a frequency of the signal output by said variable frequency oscillator and a frequency of the high frequency signal received by said input terminal;~~

wherein said filter is operable to pass a frequency lower than a predetermined cutoff frequency; and

wherein the predetermined cutoff frequency is a frequency not higher than a frequency higher than a third harmonic frequency of said variable frequency oscillator by approximately the intermediate frequency.

2. **(Currently Amended)** A high frequency receiver according to claim 1, further comprising a high frequency amplifier disposed between said filter and ~~the~~ said image rejection mixer.

3. **(Currently Amended)** A high frequency receiver according to claim 2, wherein said high frequency amplifier and ~~the~~ said image rejection mixer are formed of a balanced circuit, and

 said high frequency amplifier and ~~the~~ said image rejection mixer are inter-coupled in balance.

4. **(Currently Amended)** A high frequency receiver according to claim [[2]] 1, further comprising

wherein said filter is composed of a first filter and a second filter, and
 wherein a second filter disposed between said high frequency amplifier is disposed
between said first filter and said second filter and the image rejection mixer,
 wherein said second filter is formed of a single tuning circuit.

5. **(Currently Amended)** A high frequency receiver according to claim [[2]]4, further comprising an

wherein said first input filter disposed between said input terminal and said high frequency amplifier, wherein said input terminal is formed of a single tuning circuit.

6. **(Currently Amended)** A high frequency receiver according to claim 5, further comprising

wherein said second -a step-to-step filter disposed between said high frequency amplifier and the image rejection mixer, wherein said step-to-step filter is a fixed filter.

7. **(Currently Amended)** A high frequency receiver according to claim 6,
wherein the fixed said second filter is a high-pass filter.

8. **(Currently Amended)** A high frequency receiver according to claim 6,
wherein the fixed said second filter is a low-pass filter.

9. **(Currently Amended)** A high frequency receiver according to claim 6,
wherein the fixed said second filter is a band-pass filter.

10. **(Currently Amended)** A high frequency receiver according to claim 6,
wherein the fixed said second filter includes a plurality of filters, each of the plurality of filters having a different cutoff frequency, and

~~wherein one of the plurality of filters can be selected and can switch between the filters~~ in response to a received frequency.

11. **(Withdrawn - Currently Amended)** A high frequency receiver according to claim

2,

wherein said high frequency amplifier is directly coupled to ~~the~~ said image rejection mixer.

12. **(Currently Amended)** A high frequency receiver according to claim-~~11~~2,

wherein said high frequency amplifier ~~has~~ includes a bipolar transistor.

13. **(Currently Amended)** A high frequency receiver according to claim 2,

wherein ~~at least both~~ of said high frequency amplifier and ~~the~~ said image rejection mixer ~~have~~ include a transistor formed by an identical process, and ~~the~~

wherein said transistor is stored in one integrated circuit.

14. **(Withdrawn - Currently Amended)** A high frequency receiver according to claim

13,

wherein said high frequency amplifier is directly coupled to ~~the~~ said image rejection mixer.

15. **(Currently Amended)** A high frequency receiver according to claim-~~14~~2,

wherein said high frequency amplifier and ~~the~~ said image rejection mixer ~~have~~ include a bipolar transistor.

16-17. (Canceled)

18. (Withdrawn - Currently Amended) A high frequency receiver according to claim ~~17 1~~,

wherein said high frequency receiver is used for receiving a television broadcast,
wherein said input terminal receives a high frequency signal of the television broadcast as the high frequency signal,

wherein said filter passes a frequency in the received frequency band,

wherein said high frequency receiver comprises:

a high frequency amplifier interposed between said input terminal and said filter;
and

a switch ~~of which~~ having a common terminal ~~that~~ is disposed between said high frequency amplifier and said filter and is coupled to an output part of said high frequency amplifier,

wherein a first ~~one~~ output part of said switch is coupled to said filter, and ~~the~~ other a second output part of said switch is coupled to an input part of ~~the~~ said image rejection mixer, and

wherein said switch is coupled to the ~~other~~ said second output part when a frequency not lower than the cutoff frequency of said filter is received.

19. (Canceled)

20. (Withdrawn - Currently Amended) A high frequency receiver according to claim 1, wherein a reduction amount of ~~the an~~ image by ~~the said~~ image rejection mixer is increased with respect to a specific channel having a small damping amount of a passing characteristic of said filter.

21. (Withdrawn) A high frequency receiver according to claim 1, wherein said filter has a variable image trap capable of damping image frequency in response to at least a received channel.

22. (Withdrawn - Currently Amended) A high frequency receiver according to claim 1, wherein

said filter ~~has includes~~ a first filter for passing a frequency in a VHF low band and a second filter for passing a frequency in a VHF high band, ~~the said~~ second filter being disposed in parallel with ~~the said~~ first filter,

a variable image trap is coupled to ~~the said~~ first filter, and
~~the said~~ variable image trap damps image frequency of a received channel when the VHF low band is received, and damps frequency of the VHF low band when the VHF high band is received.

23. (Original) A high frequency receiver according to claim 1, further comprising a high frequency amplifier disposed between said input terminal and said filter.

24. **(Withdrawn)** A high frequency receiver according to claim 23, wherein said input terminal is directly coupled to said high frequency amplifier.

25. **(Original)** A high frequency receiver according to claim 1, wherein said filter is formed of a double tuning circuit.

26. **(Original)** A high frequency receiver according to claim 1, wherein said filter is formed of a fixed filter.

27. **(Canceled)**

28. **(Withdrawn)** A high frequency receiver according to claim 1, wherein said filter has a fixed trap for damping image frequency in a VHF low band.

29. **(Withdrawn)** A high frequency receiver according to claim 28, wherein a trap frequency of the fixed trap is substantially equal to an image frequency occurring when a frequency of a substantially central channel of the VHF low band is received.

30-32. **(Canceled)**

33. **(New)** A high frequency receiver according to claim 1, wherein the predetermined cutoff frequency is higher than the third harmonic frequency of said variable frequency oscillator by approximately the intermediate frequency.